

Name \_\_\_\_\_

## Trigonometric Identities

Pythagorean Identities	Alternate Form 1	Alternate Form 2

Reciprocal Identities	
$\sin \theta =$	$\csc \theta =$
$\cos \theta =$	$\sec \theta =$
$\tan \theta =$	$\cot \theta =$

Even-Odd Identities	
$\sin(-\theta) =$	$\sec(-\theta) =$
$\csc(-\theta) =$	$\tan(-\theta) =$
$\cos(-\theta) =$	$\cot(-\theta) =$

Quotient Identities	
$\tan \theta =$	$\cot \theta =$

Co-Function Identities	
$\sin \theta =$	$\cos \theta =$
$\tan \theta =$	$\cot \theta =$
$\sec \theta =$	$\csc \theta =$

Sum and Difference Identities	
$\cos(\alpha + \beta) =$	
$\cos(\alpha - \beta) =$	
$\sin(\alpha + \beta) =$	
$\sin(\alpha - \beta) =$	

Power Reduction Identities
$\sin^2 \theta =$
$\cos^2 \theta =$

Double Angle Identities
$\sin 2\theta =$
$\cos 2\theta =$ (3 forms)
$\tan 2\theta =$

Half Angle Identities
$\cos \frac{\theta}{2} =$
$\sin \frac{\theta}{2} =$
$\tan \frac{\theta}{2} =$